



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

|                                  |             |                        |                     |                  |
|----------------------------------|-------------|------------------------|---------------------|------------------|
| APPLICATION NO.                  | FILING DATE | FIRST NAMED INVENTOR   | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/774,233                       | 02/05/2004  | Richard D. Stackenwalt | 0212                | 6240             |
| 112                              | 7590        | 07/20/2009             | EXAMINER            |                  |
| ARMSTRONG WORLD INDUSTRIES, INC. |             |                        | GILBERT, WILLIAM V  |                  |
| LEGAL DEPARTMENT                 |             |                        | ART UNIT            | PAPER NUMBER     |
| P. O. BOX 3001                   |             |                        | 3635                |                  |
| LANCASTER, PA 17604-3001         |             |                        | MAIL DATE           | DELIVERY MODE    |
|                                  |             |                        | 07/20/2009          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|                              |                                       |   |
|------------------------------|---------------------------------------|---|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/774,233  | <b>Applicant(s)</b><br>STACKENWALT ET AL. |
|                              | <b>Examiner</b><br>William V. Gilbert | <b>Art Unit</b><br>3635                   |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 16 March 2009.
- 2a) This action is FINAL.      2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1,2,5,8,9,11-14,22 and 26-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,2,5,8,9,11-14,22 and 26-28 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_

**DETAILED ACTION**

This is a final Office action. Claims 3, 4, 6, 7, 10, 15-21 and 23-25 have been cancelled. Claims 1, 2, 5, 8, 9, 11-14, 22 and 26-28 are pending and examined.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1, 2, 13, 14 and 26-28** are rejected under 35 U.S.C. 102(b) as being anticipated by Thompson (U.S. Patent No. 3,550,341).

Claim 1: Thompson discloses a decorative structure comprising a panel having a first and second face (12) a support structure (Fig. 5: 80) aligned adjacent the second face of the panel, the support structure comprising a first member having a keyed aperture (114) and a cross member (100) disposed in the keyed aperture, the keyed aperture has a major channel (proximate 118) and a secure channel (proximate 117), the cross

Art Unit: 3635

member is insertable into the major channel, the keyed aperture provides a twist lock attachment of the cross member to the first member such that the cross member is locked in the secure channel, and a clip (Fig. 2: 18, 28 and 82) fastening the support structure to the panel and extending along a portion of the first face of the panel (portion of the clip proximate 18 extends along a portion of the first face of the panel.)

Claim 2: the first clip has a convolute retainer (see Fig. 2 where portion 28 is folded over portion 82), and a portion of the retainer extends along the portion of the first face of the panel (see Fig. 2: proximate 18).

Claim 13: the first clip comprises a major leg (28) engaging the support structure (as shown in Thompson Fig. 2).

Claim 14: the first clip comprises a minor leg (82) engaging the support structure.

Claim 26: the support structure is positively locked to the panel (as shown).

Claim 27: the locking is achieved by frictional engagement in that any contact between two members such as these results in frictional engagement.

Claim 28: the aperture has an hourglass shape (Thompson, Fig. 5).

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

**Claims 5, 8 and 22** are rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson in view of Deaton (U.S. Patent No. 4,471,596).

Claims 5, 8 and 22: the prior art of record discloses the claimed invention except noting that the members are curved, and that the panel is maintained in a flexed configuration by the

support structure. Deaton discloses a decorative structure with curved members (Fig. 7: 82) that keep a panel in a flexed configuration (Fig. 1). It would have been obvious at the time the invention was made to a person having ordinary skill in the art as a matter of design choice to have this limitation because a configuration of an invention is a matter of choice that a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed subject matter was significant. *In re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966). See MPEP §2144.04.

**Claims 9, 11 and 12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson in view of Jahn (U.S. Patent No. 3,292,332).

Claim 9: Thompson discloses the claimed invention except for the intersecting clip. Jahn discloses an intersection clip (Jahn: 15) engaging the first member and cross member (see Fig. 2) and locks the first member and cross member in position (see Fig. 2, generally). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to use a clip with the system in Thompson to provide a more secure connection of the frame members.

Claim 11: the intersection clip comprises two achiral halves (Jahn: portions 16).

Claim 12: the intersection clip comprises a convolute saddle member (portion 17) which integrally connects the two achiral halves.

***Response to Arguments***

3. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection as applicant amended the claims.

***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will

Art Unit: 3635

expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William V. Gilbert whose telephone number is 571.272.9055. The examiner can normally be reached on Monday - Friday, 08:00 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on 571.272.6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3635

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/W. V. G./  
Examiner, Art Unit 3635  
/Basil Katcheves/  
Primary Examiner, Art Unit 3635